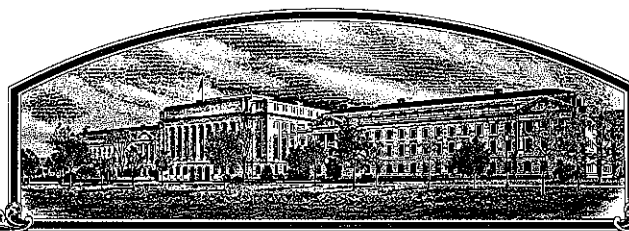


No.

8900231



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Purdue University
Agricultural Experiment Station
Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen** YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT OF 1942, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'INW8841'

REPLACEMENT CERTIFICATE

**Original grant September 30, 1993.*

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 29th day of July in the year of our Lord one thousand nine hundred and ninety-four.

Attest:

Kenneth Evans
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Mike Eszy
Secretary of Agriculture


U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

FORM APPROVED: OMB NO. 0581-0055

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) Director, Purdue University Agricultural Experiment Station		2. TEMPORARY DESIGNATION 76788G2-5-4-94	3. VARIETY NAME INW8841
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) AGAD Building West Lafayette, IN 47907		5. PHONE (Include area code) (317) 494-8362	FOR OFFICIAL USE ONLY VPVO NUMBER 8900231
6. GENUS AND SPECIES NAME Triticum aestivum	7. FAMILY NAME (Botanical) Gramineae		FILING DATE June 1, 1989 TIME 9:30 <input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M.
8. KIND NAME Wheat	9. DATE OF DETERMINATION 21 June, 1988		FEE RECEIVED AMOUNT FOR FILING \$1800.00 + 350.- DATE June 1, 1989 June 20, 1989 AMOUNT FOR CERTIFICATE \$250.00 DATE Sept. 7, 1993
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Agricultural Experiment Station			12. DATE OF INCORPORATION
11. IF INCORPORATED, GIVE STATE OF INCORPORATION			
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Dr. V. L. Lechtenberg Purdue University, AES Agricultural Administration Building West Lafayette, IN 47907 PHONE (Include area code): (317) 494-8363			
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement. c. <input checked="" type="checkbox"/> Exhibit C, Objective Description of Variety (Request form from Plant Variety Protection Office.) d. <input checked="" type="checkbox"/> Exhibit D, Additional Description of Variety. e. <input checked="" type="checkbox"/> Exhibit E, Statement of the Basis of Applicant's Ownership.			
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) <input type="checkbox"/> Yes (If "Yes," answer items 16 and 17 below) <input checked="" type="checkbox"/> No			
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER DESIGN? <input type="checkbox"/> Foundation <input type="checkbox"/> Registered <input type="checkbox"/> Certified <input checked="" type="checkbox"/> AAA 9 Sept 1993 M. C. C. C.	
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? <input type="checkbox"/> Yes (If "Yes," give date) <input checked="" type="checkbox"/> No			
19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No			
20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF APPLICANT 		DATE 5-17-89	
SIGNATURE OF APPLICANT		DATE	

13A. Exhibit A. Origin and Breeding History of INW8841

INW8841 (formerly 7688G2-5-4-94) (PI 531247). The parentage is: Beau/13/(Knox62/6/Vigo/4/Trumbull//Hope/Hussar/3/Fairfield*3/5/Kenya Farmer)*2/7/Siete Cerros/12/Arthur/11/Afghanistan/9/Knox*4/8/Kawvale/3/CI 11512/CI 4830//W38/4/Wabash /5/Fairfield/6/Trumbull*3//Hope/Hussar/7/Knox/5/Fairfield/4/PI 94587//CI 11512/CI 4830/3/CI 11512/CI 4830/10/Knox*2//Frontana/Exchange/3/Monon.

The abbreviated parentage is: Beau//65256A1-9/6575A2-7-1-1-5. 65256A1-9 = (Knox 62/6/Vigo/4/ Trumbull//Hope/Hussar/3/Fairfield*3/5/Kenya Farmer)*2/7/Siete Cerros. 65256A1-9 is related to and has characteristics similar to Fillmore. 6575A2-7-1-1-5 = Arthur/11/Afghanistan/9/Knox*4/8/ Kawvale/3/CI 11512/CI 4830//W38 /4/Wabash/5/Fairfield/6/Trumbull*3//Hope/Hussar /7/Knox /5/Fairfield/4/PI 94587// CI 11512/CI 4830/3/CI 11512/CI 4830/10/Knox*2//Frontana/Exchange/3/ Monon. 6575A2-7-1-1-5 is three inches shorter than Auburn and has excellent resistance to leaf rust.

Subsequent to the final cross, INW8841 was developed by a modified pedigree method of breeding with plant selections made in the F2, F4 and F7 generations. The line is the progeny from one of the 100 head rows from plant selections made in the F7 generation. Breeder Seed, produced in 1988, and offered for testing and seed increase was the F13 generation.

INW8841 has a high yield potential, excellent test weight, is about one day earlier heading than Auburn, has excellent lodging resistance, and its level of winterhardiness is higher than that of Caldwell, but lower than that of Auburn (Tables 1 and 2). The new line has a high level of tolerance to take-all, is resistant to powdery mildew, leaf rust, stem rust, Septoria leaf blotch, biotypes GP, A, B, and D of Hessian fly and it is moderately resistant to soil-borne mosaic (Tables 3 and f). Soft wheat milling and baking scores of INW8841 are very good (Table 5).

INW8841 has an upright seedling growth habit, is awnletted and its glumes are white at maturity. It is similar to Arthur in general plant type, but the spike is longer. Coleoptile color is white. INW8841 has been uniform and true breeding during development of Breeder Seed. Variants have not been observed.

13B. Exhibit B. Novelty Statement

INW8841 is most similar to Auburn (or, of the choices on Form LPGS 470-6, Arthur) in general plant type. INW8841 differs from Auburn as follows:

The rachis internodes of INW8841 are longer (4.9 mm for INW8841 compared to 3.9 mm for Auburn); the date of heading of INW8841 is 1 to 2 days earlier than Auburn; INW8841 is tolerant to the take-all disease; and INW8841 has gene H5 that conditions resistance to biotype D of the Hessian fly whereas Auburn has gene H6, but not H5 and is, therefore, resistant to biotype B, but not D.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT (Wheat)

OBJECTIVE DESCRIPTION OF VARIETY
WHEAT (TRITICUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Dr. B. R. Baumgardt, Director

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

Agricultural Experiment Station

Purdue University

West Lafayette, IN 47907

FOR OFFICIAL USE ONLY

PVPO NUMBER

8900231

VARIETY NAME OR TEMPORARY DESIGNATION

76788G2-5-4-94 (INW8841)

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. or) when number is either 99 or less or 9 or less.

1. KIND:

1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:

1 = SPRING 2 = WINTER 3 = OTHER (Specify) _____ 1 = SOFT 3 = OTHER (Specify) _____
2 = HARD

1 = WHITE 2 = RED 3 = OTHER (Specify) _____

3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:

FIRST FLOWERING

LAST FLOWERING

4. MATURITY (50% Flowering):

NO. OF DAYS EARLIER THAN 1 = ARTHUR 2 = SCOUT 3 = CHRIS

NO. OF DAYS LATER THAN 4 = LEMHI 5 = NUGAINES 6 = LEEDS

5. PLANT HEIGHT (From soil level to top of head):

CM. HIGH

CM. TALLER THAN

CM. SHORTER THAN 1 = ARTHUR 2 = SCOUT 3 = CHRIS
4 = LEMHI 5 = NUGAINES 6 = LEEDS

6. PLANT COLOR AT BOOTING (See reverse):

1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

7. ANTHUR COLOR:

1 = YELLOW 2 = PURPLE

8. STEM:

Anthocyanin: 1 = ABSENT 2 = PRESENT

Waxy bloom: 1 = ABSENT 2 = PRESENT

Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT

Internodes: 1 = HOLLOW 2 = SOLID

NO. OF NODES (Originating from node above ground)

CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:

Anthocyanin: 1 = ABSENT 2 = PRESENT

Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:

Flag leaf at booting stage: 1 = ERECT 2 = RECURVED
3 = OTHER (Specify): _____

Flag leaf: 1 = NOT TWISTED 2 = TWISTED ($\frac{1}{2}$ twist)

Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT

Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT

MM. LEAF WIDTH (First leaf below flag leaf)

CM. LEAF LENGTH (First leaf below flag leaf):

1. HEAD:

1 Density: 1 = LAX 2 = DENSE 1 Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE
4 = OTHER (Specify) _____

3 Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED

2 Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED
5 = BROWN 6 = BLACK 7 = OTHER (Specify): _____

1 0 CM. LENGTH 1 3 MM. WIDTH

12. GLUMES AT MATURITY:

3 Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) 2 Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.)
3 = LONG (CA. 9 mm.) 3 = WIDE (CA. 4 mm.)

2 Shoulder 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 1 Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE
shape: 4 = SQUARE 5 = ELEVATED 6 = APICULATE

13. COLEOPTILE COLOR: 14. SEEDLING ANTHOCYANIN:

1 1 = WHITE 2 = RED 3 = PURPLE 1 1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

3 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

16. SEED:

1 Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL 1 Cheek: 1 = ROUNDED 2 = ANGULAR

2 Brush: 1 = SHORT 2 = MEDIUM 3 = LONG 1 Brush: 1 = NOT COLLARED 2 = COLLARED

3 Phenol reaction 1 = IVORY 2 = FAWN 3 = LT. BROWN
(See instructions): 4 = BROWN 5 = BLACK

3 Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) _____

0 6 MM. LENGTH 0 3 MM. WIDTH 3 3 GM. PER 1000 SEEDS

17. SEED CREASE:

1 Width: 1 = 60% OR LESS OF KERNEL 'WINOKA'
2 = 80% OR LESS OF KERNEL 'CHRIS'
3 = NEARLY AS WIDE AS KERNEL 'LEMHI'

2 Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT'
2 = 35% OR LESS OF KERNEL 'CHRIS'
3 = 50% OR LESS OF KERNEL 'LEMHI'

18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

2 STEM RUST (Races) Prevalent 2 LEAF RUST (Races) Prevalent 0 STRIPE RUST (Races) _____ 2 LOOSE SMUT

2 POWDERY MILDEW Prevalent 0 BUNT OTHER (Specify) _____

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

0 SAWFLY 1 APHID (Bydv.) 0 GREEN BUG 1 CEREAL LEAF BEETLE

OTHER (Specify) _____ HESSIAN FLY RACES: 2 GP 2 A 2 B 0 C
2 D 0 E 0 F 0 G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Arthur	Seed size	Arthur
Leaf size	Arthur	Seed shape	Arthur
Leaf color	Arthur	Coleoptile elongation	Arthur
Leaf carriage	Arthur	Seedling pigmentation	Arthur

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

- (a) L.W. Briggie and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.
- (b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

Table 1. Performance of INW8841, INW8852, Clark, Caldwell and Auburn in Advanced Nursery trials at Lafayette, Indiana.

Variety	Yield	Test weight	Date headed	Plant height	Straw score	Winter survival
	bu/a	lb/bu	May	in	0-9 ¹	%
Av. 1985, 1987, 1988						
INW8841	73.6	60.5	14.7	34.6	3.3	100
INW8852	63.8	59.5	15.7	35.2	3.3	98
Clark	69.7	60.1	11.0	34.6	3.7	98
Caldwell	68.4	59.4	12.7	33.4	3.3	98
Auburn	63.9	59.4	15.7	34.3	4.0	100
LSD (.05)	8.6	1.9	1.1	1.6	1.2	
1986 ²						
INW8841	64.6					40
INW8852	46.0					33
Caldwell	30.4	51.7	13.0	31.0	--	17
Auburn	65.7	52.4	16.0	35.0	--	53
LSD (.05)	10.5	--	--	--	--	13
1983-1985						
INW8852	88.9	60.5	22.3	37.1	4.0	100
Caldwell	90.5	60.6	20.3	37.3	3.3	100
Auburn	84.5	59.8	22.7	37.3	3.3	100
LSD (.05)	5.5	1.6	1.5	2.6	1.3	

¹ 0 = no lodging or leaning to 9 = lodged flat.

² Data for 1986 are presented separately because of severe winterkilling.

Table 2. Performance of wheat varieties near Sullivan, Indiana, 1988.

Variety	Yield	Test weight	Date headed
	bu/A	lb/bu	May
INW8841	46.1	56.9	11
INW8852	45.9	55.9	12
Clark	52.6	57.9	6
Caldwell	47.8	56.4	8
Compton	48.9	59.2	11
Auburn	45.6	56.6	12
LSD (.05)	4.9	0.9	0.5

¹ Values are averages of nine observations: three seeding rates x three replications.

Table 3. Disease severities and reactions of selected wheat varieties to diseases and Hessian fly, Lafayette, Indiana 1986-1988.

Variety	Take- all ²	Disease ¹						Hessian [*] fly	
		PM	LR	SR	Septoria	SBM	BYD	B	D
		----- % ³ -----			----- 0-9 ⁴ -----		-- 0-6 ⁵ --		
1988									
INW8841						7.0	5.5	0	0
INW8852						3.0	5.5	0	0
Clark						3.0	5.5	0	0
Caldwell						5.5	5.0	0	6
Auburn						3.0	5.5	0	6
1987									
INW8841	301(13)		20	0	7.5 D	4.0		0	0
INW8852	323(6)		7	0	7.5 E	3.5		1	0
Clark	267(51)		20	0	8.0 E	3.5		0	0
Caldwell	198(145)		20	0	8.0 E	5.0	G ⁶	0	6
Auburn	186(156)		tr	0	7.5 D	4.0	G	0	6
1986									
INW8841		2	0.3	0	8	--		2	3
INW8852		2	0.5	0	7	2.5		3	1
Clark		3	2.0	3	8	1.0		3	1
Caldwell		3	tr	0	9	7.5		0	6
Auburn		2	tr	tr	7	5.5		1	6

¹ PM, powdery mildew; LR, leaf rust; SR, stem rust; Septoria, *S. tritici* and *S. nodorum*; SBM, soil-borne mosaic; BYD, barley yellow dwarf; WSSM, wheat spindle streak mosaic; B and D, biotypes B and D of Hessian fly.

² 1987: yield, g/plot (3-rep ave, LSD = 89) in take-all test; value in parentheses is yield rank, 180 entries in test.

³ Percentage of leaf blade (leaf sheath and stem for SR) area infected.

⁴ 0 = no infection to 9 = severe infection or expression of symptoms; for Septoria, A = no pycnidia in lesions to E = abundant pycnidia in lesions.

⁵ 0 = all seedlings normal to 6 = all seedlings stunted.

⁶ G = plants in hill plots were well-grown and had infection but showed minimal BYDV symptoms.

Table 4. Disease reactions¹ of wheat varieties in drill strip plots, Purdue Agronomy Farm, 1987 and 1986.

Variety	1987			1986			
	PM 6/1	Sep 6/8	LR 6/8	PM 6/10	Sep 6/13	LR 6/19	SR 6/25
INW8841	13.8	57.7	0				
INW8852	12.5	57.7	0	8.2	57.3	20.0	23.0
Clark	7.0	55.6	0.3	20.3	53.1	40.0	53.8
Auburn	1.5	61.7	0.1	2.3	51.1	0.0	61.3
Caldwell	21.3	70.1	0.2	32.3	72.4	7.3	6.0
Arthur	17.0	63.8	0.3	6.0	64.0	18.0	71.0
Monon	15.0	70.1	4.0	27.0	89.0	40.0	68.0

¹ Data are from the normal sowing date plots. Disease is reported as the percent severity on the date indicated. Values are averages of readings in four replicate plots. PM = powdery mildew, Sep = *Septoria tritici* and/or *Septoria nodorum* leaf blotch, LR = leaf rust (severity on flag leaf only), SR = stem rust (severity on upper stem and leaf sheaths).

Table 5. Quality evaluations of Advanced Nursery samples from Lafayette, Indiana.

Variety	Mill score ^a	Bake score ^a
1986		
Tyler (S) ^b	100.0A	100.0A
Benchmark ^c	103.5A	107.7A
INW8841	88.7D	98.0B
INW8852	89.3D	84.1E
1985		
Auburn (S)	100.0A	100.0A
Benchmark	110.0A	108.7A
INW8841	109.6A	104.7A
1984		
Caldwell (S)	100.0A	100.0A
Benchmark	105.6A	98.5B
INW8852	97.3B	86.3D
1983		
Auburn (S)	100.0A	100.0A
Benchmark	100.0A	100.6A
INW8852	97.3B	102.7A

^a All samples were evaluated at the Soft Wheat Quality Laboratory, Wooster, OH. Milling score is in percent in relation to the standard cultivar and is calculated as a weighted average of flour yield (50%), softness score (30%), test weight (10%) and ash (10%). Letter ratings A to F are added at 5% intervals of the milling score, e.g. A for 100 and above, B for 95.0 to 99.9, C for 90.0 to 94.9 etc. Quality categories A through E are acceptable.

Baking quality score is a weighted average of three tests: protein (20%), alkaline water retention capacity (AWRC), a measure of gluten level, (40%), and softness equivalent (40%). Scored A to E as for milling.

^b (S) = standard cultivar from the same test chosen as the standard for comparison.

^c Benchmark is a wheat of known good quality grown in one environment to compare with standard cultivars in all tests that year.

Exhibit E. Statement of Basis of Applicant's Ownership

'INW8841' was developed under leadership of Dr. H. W. Ohm. Dr. Ohm is an employee of Purdue University which claims ownership to intellectual property developed by its faculty.